


Name:			
Enrolment No:			
UPES End Semester Examination, May 2023			
Course: IT Security Program: MCA Course Code: CSCS57007P		Semester: II Time : 03 hrs. Max. Marks: 100	
Instructions: All Questions are compulsory. Please attempt the questions in a serial order.			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Classify different computer security types with an example.	4	CO1
Q2	Discuss five key developments to consider for managing authorization in the web service.	4	CO2
Q3	What do you understand by Digital Signatures? Write down benefits of Digital Signatures.	4	CO2
Q4	Draw physical security model. Also, list down it's purpose and objectives.	4	CO3
Q5	Define function of TGS server in Kerberos.	4	CO4
SECTION B (4Qx10M= 40 Marks)			
Q6	Define IDaaS. How IAM can help in Mobile computing?	10	CO2
Q7	Explain the major principle behind Cloud provisioning. How it can be assured for different cloud services provisioned for IaaS, PaaS and SaaS models.	10	CO3
Q8	Write a short note on; user account, sql injection, port scanning, firewall and server hijacking.	10	CO4
Q9	Elaborate the essential firewall characteristic and vulnerabilities with suitable examples. OR Explain the use of nmap and wireshark. (Mention appropriate commands and steps)	10	CO2
SECTION-C (2Qx20M=40 Marks)			
Q10	List the various attacks that can be made on packet filtering routers and mention appropriate counter measures. Describe phantom attacks.	15+5=20	CO3

Q11	Explain the sequence of steps used in Secure Socket Layer handshake Protocol for establishing a new session. Draw a diagram, which shows the action of Handshake Protocol. <p style="text-align: center;">OR</p> Explain the steps involved in performing Secure Inter-branch Payment Transactions.	20	CO4
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